

### Investigation of a brain computer interface using potentiometric wave control

\_\_\_\_\_, \_\_\_\_\_, \_\_\_\_\_<sup>1</sup>, \_\_\_\_\_<sup>2</sup>, \_\_\_\_\_<sup>2</sup>, \_\_\_\_\_<sup>3</sup>, \_\_\_\_\_<sup>\*</sup>  
; <sup>1</sup>Fudan university; <sup>2</sup>\_\_\_\_\_ ; <sup>3</sup>\_\_\_\_\_  
(suwyoung@seoultech.ac.kr<sup>\*</sup>)

In vivo or vitro conditions, brain computer interfacing is a popular choice for high-speed response. This research of brain wave detection was performed by copper film electrode connected to a computing workstation circuit, a method that is assayed for in vivo or vitro nerve current detection. A person attached to film electrode is stimulated by an external response such as muscle strength, moving, or sensing of the five senses signal, the device catches the electric potential current. In neuro sensing optimum para current were obtained by using signal amplification, potential windows, current frequency and other optimum conditions. Results of amplified current can be applied to brain computer interface nerve filling controls.